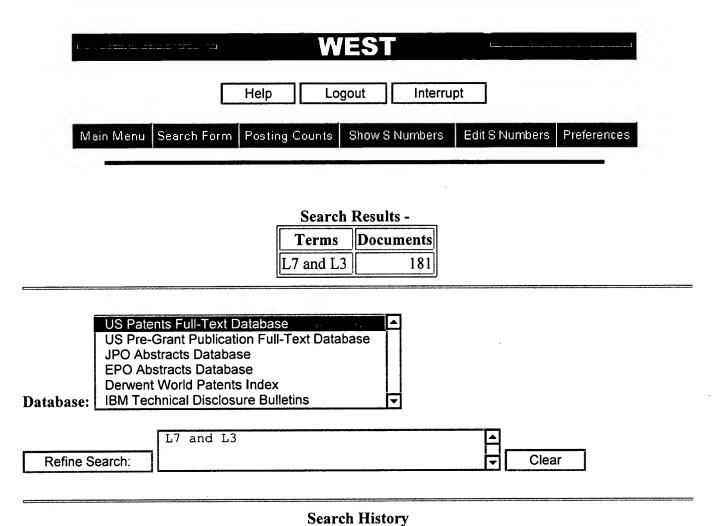
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1	IS&R	L1	96	("705/32").CCLS.	DEKW	2001/06/27 11:13
2	IS&R	L2	122	("705/42").CCLS.	:DEKW	2001/06/27 11:14



Today's Date: 6/27/2001

DB Name	Query	Hit Count	Set Name
USPT	L7 and L3	181	<u>L8</u>
USPT	L2 and L1	69358	<u>L7</u>
USPT	L5 and L3	0	<u>L6</u>
USPT	internet with shopping with time	14	<u>L5</u>
USPT	internet with shopping with time	14	<u>L4</u>
USPT	bank with billing	188	<u>L3</u>
USPT	internet shopping time	1965195	<u>L2</u>
USPT	bank billing	79296	<u>L1</u>

Results List — most r levant first

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- Use Natural Language Search to enter a question in everyday English.
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	1.	1	****	Fed approves settlement-day finality for A Payments System Report, Herdon; Dec pgs	<u>CH credits;</u> <i>Anonymous</i> ; 1999; Vol. 14, Iss. 9; pg. 1, 4	
	2. 🖺		***	KINGSTON VOICEWARE: Kingston Voicewontact centre for time retail finance; M2 2000; pg. 1		
	3. 🖺		***	INDIAN GOVERNMENT: Recovery suits aga September 2000; Education loan scheme students; M2 Presswire , Coventry; Jun 1	to be restructured to help	
	4.		***	SPECIAL REPORT: The Commercial Bankir Banking Report 1999): The economic cost BusinessWorld, Manila; Aug 11, 1999; p	of banks' NPAs;	
	5.	16 3	**	Resource management: Making a differen Auckland; Nursing Standard, Harrow-on 14, Iss. 24; pg. 42, 5 pgs	ce in mental health; <i>Gary</i> -the-Hill; Mar 1-Mar 7, 2000; Vol.	
	6.		**	Bank's Monitoring System Is Scrutinized - for More Oversight Of Customer Activity; Beckett; Wall Street Journal, New York, edition; pg. A.2	By Michael Allen and Paul N.Y.; Aug 27, 1999; Eastern	
	7.		**	Strategies to hedge bank risks; Business pg. 1		
	8.		**	IMF: IMF approves third annual PRGF arra Presswire, Coventry; Apr 17, 2001; pg.	1	
	9.		**	UK Government: Intervention order issue Presswire , Coventry; Dec 19, 2000; pg.		
	10.		**	ClarITeam: Inefficient service level manage confidence in e-banks; ClarITeam launched performance and availability of the IT system Coventry; Aug 16, 2000; pg. 1 Next 11-20	es White Paper on controlling the	
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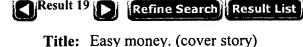
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Searched: Corporate ResourceNet for bank billing for internet browsing

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Subject(s): BANKS & banking -- Automation

Source: NetGuide, Feb96, Vol. 3 Issue 2, p46, 5p, 3c

Author(s): Costanzo, Chris

Abstract: Reflects on the popularity and evolution of electronic banking via the Internet. Prediction

on the number of homes that will have a Web presence by mid-1996; Security First National Bank as the the only bank born and raised exclusively on the Internet; Benefits of electronic banking; Personal financial software that links banks to customers. INSETS: Security blankets (electronic banking security issues); Say later to the teller -- online (list

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of cyberbanks); Who pays? (banking fees).

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Best Part

Section: Net.Cover Story

EASY MONEY

Despite years of trying, online banks have been a bust. That's about to change.

Last October, Eric Walter, a 27-year-old single guy from Atlanta, became the first customer of Security First Network Bank, the only bank born and raised exclusively on the Internet. He is what you might consider an anomaly: a happy banking customer. Why? He can now look up his balances, transfer funds between accounts, download real-time account statements, and pay his bills electronically-24 hours a day, seven days a week.

With increasing ease, banks are making it possible for all of us to share in Walter's newfound contentment. In fact, as a few veteran keyboarders already know, PCs and modems are old banking acquaintances. Since the late 1970s, a number of institutions have been struggling to make winners out of their proprietary PC-based remote access applications, though these systems were mostly expensive failures. More recent efforts springing up on the Internet, online services, and proprietary dial-up lines are far more sophisticated, intuitive, and feature-laden. And if usage projections for the coming years are correct, the turn of the century can't come soon enough for banks investing in cyberspace.

Last year, 28 percent of all U.S. households had PCs, and 6 percent of U.S. households had PCs connected to the Internet. By 2000, the number of homes with PCs will more than double to 64 percent, with 22 percent of all U.S. households expected to be online, predicts Forrester Research Inc., a market research firm in Cambridge, Mass., that analyzes technology's consumer impact.

Forrester foresees this trend spurring a massive interest in managing assets online. By 2000, \$46 billion will roam the *Internet*, Forrester says-\$30 billion in mutual funds and \$16 billion in deposits.

Present-day contributors to the online **banking** fray that make such rosy predictions possible include 26 **banks** that have thus far aligned with Intuit Inc., Meca Software Inc., and Microsoft, which sell the Quicken, Managing Your Money, and Money personal financial management software packages, respectively. These applications let you download your **bank** account information directly into the software.

Other *banks* are leaping onto the proven framework of the online services, setting themselves up as menu choices within America Online or the more established Prodigy (which plans a major upgrade of its online *banking* services during the first quarter of this year).

While online services and private dial-up solutions have been met with overall success, the *Internet* may turn out the winner. Already, IBM counts more than 300 institutions on the Web; the company also estimates that the number of *bank Internet* sites about doubles every 60 days. At that rate, more than 5,000 *banks* will have a Web presence by mid-1996.

Main Street Blues

Security First Network *Bank*-Walter's *banking* mecca-is a wholly owned subsidiary of a small Kentucky *bank*. Its virtual branch (http://www.sfnb.com/) touts all the trappings of your typical Main Street branch: an information area, a desk to help customers set up accounts, a personal finance area, a customer service center, and even an office for the president. The only difference between this branch and the tens of thousands of others already built by other *banks* is that it's accessible only through the *Internet*-and, of course, you don't have to wait in line. As of early December, the *bank* reported more than 1,000 checking account applications from 38 states.

Opening an account at Security First was easy, Walter says. In fact, it was almost too easy. "I thought I had missed something," he says. All he had to do was fill out an application online, print it out, sign it (since the government still requires handwritten signatures), and mail it to Security First, along with his check for deposit. Security First mailed him back a welcome kit that included instructions, a mouse pad, self-addressed, stamped envelopes for deposits, and a form for initiating direct deposits of payroll checks. Walter withdraws money with an ATM card.

Within one month of *banking* at Security First, Walter decided to move all his money into the cyberbank. Besides the convenience, the no-fee, no minimum-balance policy on Security First's checking accounts also helped the *bank* snag Walter's total *banking* business. Security First starts charging \$1 per transaction after the 10th monthly ATM withdrawal.

Another benefit of electronic *banking* is electronic *bill*-payment services. This Security First offering, which is becoming increasingly ubiquitous in online *bank* services, compels you to be more disciplined about making payments. Why? Because, for better or worse, electronic *bill* payments get disbursed by the *bank* only if the funds are available in your account. (In a paper-based *banking* system, conventional checks let you float payments at your own risk.) Thus, using an electronic *bill*-payment system is like writing a certified check for each one of your *bills*. Payments clear faster, and your merchants stay happy. Security First starts charging 50 cents after the 20th monthly electronic *bill* payment.

Banks Untangle the Web

Even banks that weren't born on the Internet like Security First are beaming out substantial capabilities. Many of them, like San Francisco-based Bank of America, are launching second-generation Web pages, having cut their teeth on Internet banking with dry, text-only, simple Web sites. "We thought our first Web site was neat at the time [a year and a half ago]," says Bob Wynne, a spokesman for Bank of America. "But it was really pretty primitive."

Today, *Bank* of America's Web site (http://www.bankamerica.com/) boasts credit card applications, college-budget calculators, home-loan rates via hyperlinks to real estate brokerages, and complete mortgage applications.

A novel feature of the **Bank** of America site is its Build Your Own **Bank** function, in which visitors fill out personal profiles about their interests. In subsequent visits, the Web site brings together new information and financial tools that match each individual's lifestyle and preferences. Even better, browsers who fill out the Build Your Own **Bank** profile automatically become eligible to win a \$5,000 sweepstakes prize.

Salem Five Cents Savings *Bank*, a Salem, Mass., *bank* (http://www.salemfive.com/), keeps customers coming back to its Web site by offering online-only weekly specials, like on CD rates, for example. One of Salem Five Cents' most successful offerings is its Mortgage Coupon, good for \$100 off the closing costs of a mortgage for customers who apply via the *Internet*.

While banks like Salem Five Cents and Bank of America get the loan process rolling through online applications, at least one bank actually is approving loans over the Internet. In October, Canada's Bayshore Trust Co. (http://www.bayshoretrust.com/) began accepting cyberapplications for consumer loans ranging from \$5,000 to \$15,000. It boasts the ability to say "yea" or "nay" to these applicants via the Internet within two minutes.

Software Veterans Log On

Now that **banks** are finally getting the hint about cyberspace, personal financial software that has for years supported consumers' **banking** endeavors is joining the fray. Intuit, Meca, and Microsoft are all in the process of linking **banks** to their customers, with their products as the principal conduits. Thus, you'll be able to click a button and have your checking, savings, ATM, and credit card transactions neatly formatted into Quicken, Managing Your Money, or Money-no more tedious data entry from monthly statements.

In fact, monthly statements will be superfluous because at any time you'll be able to turn on your computer, check your current balances, see which transactions have cleared, or reconcile accounts. If you want to transfer funds between accounts, you'll simply click a button and fill in the details. What's more, all three companies also have added electronic *bill*-payment services to their offerings.

Each of the 26 *banks* that these software companies have signed on is in a different phase of actually bringing the services to market, and they'll determine individually the fees they'll charge.

If you're using personal finance software, but your **bank** isn't hooked into it, you obviously won't be able to download your account information; however, you can still pay **bills** online, since each program employs a clearinghouse of some sort to execute such payments from your existing **bank** account.

Quicken Goes Browsing

Other developments are on the way as well. Toward the end of 1995, Intuit announced two new roads for online banking. First, it incorporated a Web browser program into Quicken, which will eventually let users conduct Ouicken banking transactions with participating banks, via the Internet.

Intuit also jumped into an alliance with America Online to give AOL subscribers access to electronic banking services. AOL users will be able to check their balances, download account statements, transfer funds, and pay bills through Quicken-based banks-all electronically from within their AOL accounts-and at no cost beyond the regular AOL monthly subscription fee. The move puts Intuit on par with Microsoft, which plans to make its Money personal financial management program available through the Microsoft Network.

Once you decide, like Walter, that online banking's convenience outweighs its potential security risks, you may find yourself actually enjoying banking.

PHOTO (COLOR): Money on a monitor

PHOTO (COLOR): Fill out Bank of America's Personal Profile to get customized service--and a chance to win \$5,000.

PHOTO (COLOR): Canada's Bayshore Trust can process loans online in two minutes.

By Chris Costanzo

Chris Costanzo is the New York-based editor in chief of Faulkner & Gray's Bank Technology News.

Inset Article

SECURITY BLANKETS

Besides fees, the other hurdle to home banking that most consumers-and banks-face is security. According to David Stewart, senior consultant of bank consultancy Global Concepts Inc., two of the three requirements for fully securing Internet transactions exist today, while the third is just hitting the market.

Encryption ensures data can't be altered en route between your browser and the bank's server. Meanwhile, private/public key cryptography authenticates your data's origin and destination. Finally, you need to authenticate that authentication. Trusted institutions, such as post offices and banks, will act as certification authorities. Essentially these authorities will verify, via private and public keys, that senders and receivers are who they say they are. This last process will be "...unlike anything we've ever seen," Stewart says.

Security First Network Bank employs much of the encryption and private/public key cryptography described above to secure transactions flowing into and out of the bank. And once financial information reaches Security First, a trusted operating system from SecureWare Inc. locks customer data inside a "virtual vault." Secure Ware's system has a distinguished lineage, having secured sensitive computer programs for various government defense departments, including the U.S. Air Force Air Mobility Command and the National Security Agency.



"I figured if [this security system] was good enough for the Department of Defense, it was good enough for me," says Eric Walter, Security First's charter customer.

Inset Article

SAY LATER TO THE TELLER LINE-ONLINE

As of the end of 1995, 40 *banks* conducted full transactional business around the clock, using either the *Internet*, personal financial software packages, commercial online services, or a combination of these services (see list below).

At last count, at least 65 other *banks* were providing remote *banking* services, using non-consumer software packages developed by vendors specifically geared toward the *banking* industry. Consult your local *bank* to see if it offers such a solution.

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World Wide Web
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     These banks have allied with both Intuit and Microsoft to
     offer dial-up banking services.
Bank of Boston
Centura Bank
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Chemical Bank
Compass Bank
CoreStates Bank
Crestar Bank
First Hawaiian Bank
First Interstate Bank
First National Bank of Chicago
Home Savings of America
M&T Bank
Marquette Banks
Mellon Bank
Michigan National Bank
Sanwa Bank California
Texas Commerce Bank
Union Bank
US Bancorp
Wells Fargo Bank
Ouicken (Intuit)
     Citibank has chosen Quicken as its sole third-party banking
     interface.
Managing Your Money (Meca Software)
Bank of America
First Bank Systems Inc.
Fleet Bank
NationsBank
Royal Bank of Canada
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Prodigy Corp.
These banks offer full transactional services via Prodigy.
Banc One Corp.
Barnett Banks Inc.
Boatmen's Bancshares
Chemical Bank
Chevy Chase Bank
Comerica Inc.
CoreStates Financial Corp.
(including CoreStates Bank and three other banks it owns)
Meridian Bancorp
Midlantic Bank
NBD Bancorp
PNC Bank Corp.
Wells Fargo Bank

Inset Article

WHO PAYS?

The typically well-educated and affluent early adapters of electronic **banking** services are smart enough to realize they're doing their **banks** a favor by **banking** from home-and they're hard-pressed to stand for any fees. "It's in the **bank**'s interest to have me **bank** from home. Then it can get rid of its branches," says Simon Middleton, vice president of sales and marketing at Checkpoint Security Services Ltd. "But the fees they charge are not an encouragement." Simon found electronic **banking** at his **bank**, Chase Manhattan, to be "jolly expensive-like paying a cable **bill**." He adds, "Unless it's free, I'm not doing it."

A few banks, however, have caught wind of that attitude. Union Bank of San Francisco (http://www.tdmi.com/union/), which offers home banking services through Quicken and Money, is suspending monthly fees for 12 months, in addition to providing a \$50 rebate to cover the cost of purchasing either Quicken or Money. Joanne Curran, a spokeswoman at the bank, reports an overwhelmingly positive customer response. A minimum of 500 people a day from all over the country have been calling to inquire about the service, she says.

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